

ROBUST SUMMARY
ALKYL SULFIDE CATEGORY
CAS # 68511-50-2
HEALTH ELEMENTS: ACUTE TOXICITY

<u>Test Substance</u>	
CAS #	68511-50-2
Chemical Name	1-propene, 2-methyl-, sulfurized
Remarks	This substance is also referred to as methyl propene derivative in HERTG's Test Plan for Alkyl Sulfide Category. For more information on the chemical, see Section 2.0 "Chemical Description of Alkyl Sulfide Category" in HERTG's Test Plan for Alkyl Sulfide Category.
<u>Method</u>	
Method/Guideline followed	Experimental; modified OECD guideline 403
Test Type	Acute inhalation toxicity (4 hours)
GLP (Y/N)	Y
Year (Study Performed)	1990
Species/Strain	Rat; Sprague-Dawley
Sex	Male & Female (9 weeks old at initiation of study)
No. of animals/sex/dose	20 (10M, 10F/group)
Vehicle	Not applicable
Route of administration	Whole body inhalation of vapor from sample heated to 200°C
Remarks field for test conditions	Rats were exposed to 0.07 or 0.39 mg/l vapor for a single 4 hour whole body exposure. Sham control rats were placed in inhalation chambers in room air. One half of rats (5M, 5F) from each group were sacrificed 24 hour post exposure; others maintained for 2 weeks recovery. Vapors from the methyl propene derivative were generated in a counter current generator and delivered into the exposure chamber. Air samples were pulled through glass fiber filters to verify that particles were not present and animals were being exposed to pure vapor. Vapors were analyzed by GC to quantitate chamber concentrations using octane as a standard; qualitative analyses were performed by GC/MS. Animals were observed in the chambers and post exposure for clinical signs of toxicity. Body weights were taken and selected organs weighed at necropsy. Histopathology on liver, kidney lungs, nasal turbinates, tracheobronchial lymph nodes.
<u>Results</u>	LC50 > 0.39 mg/l
Remarks	No mortality and minimal toxicity was observed. Abnormal clinical signs occurring during and immediately post exposure included oral and ocular discharge, shallow respiration (some high dose rats only) and decreased response to stimuli. No abnormal treatment-related clinical signs were observed from 1 hour post exposure to the end of the recovery period. Group body weights and weights of liver, kidney and lungs were unaffected by exposure. No treatment related microscopic lesions were observed in the 5 organs examined.

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<u>Conclusions</u>	LC50 > 0.39 mg/l of a vapor generated from the starting material at 200 ⁰ C, not from the whole methyl propene derivative. Vapor approximates conditions of workplace exposure.
<u>Data Quality</u>	Reliable with restrictions. GLP compliant Study performed with two dose groups and is not a limit test. Physical and chemical properties provided with exception of structural formula, purity of starting material.
<u>References</u>	This robust summary was prepared from an unpublished study by an individual member company of the HERTG (the underlying study contains confidential business information).
<u>Other</u>	Updated: 12-29-99